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(54) **COMPOSITIONS FOR ELECTRONIC APPLICATIONS**(71) Applicant: **E I DU PONT DE NEMOURS AND COMPANY**, Wilmington, DE (US)(72) Inventors: **Jerald Feldman**, Wilmington, DE (US); **Norman Herron**, Newark, DE (US); **Michael Henry Howard, Jr.**, Montchanin, DE (US); **Nora Sabina Radu**, Landenberg, PA (US); **Vsevolod Rostovtsev**, Swarthmore, PA (US); **Kerwin D Dobbs**, Wilmington, DE (US); **Adam Fennimore**, Wilmington, DE (US); **Weiyang Gao**, Landenberg, PA (US); **Weishi Wu**, Landenberg, PA (US); **Ying Wang**, Wilmington, DE (US); **Charles D McLaren**, Landenberg, PA (US)(73) Assignee: **E I DU PONT DE NEMOURS AND COMPANY**, Wilmington, DE (US)

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(51) **Int. Cl.**

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C09K 11/06	(2006.01)
H01L 51/00	(2006.01)
H05B 33/14	(2006.01)
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H01L 51/05	(2006.01)
H01L 51/50	(2006.01)

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CPC	H01L 51/0072 (2013.01); C09K 11/025 (2013.01); C09K 11/06 (2013.01); H01L 51/0061 (2013.01); H01L 51/0067 (2013.01); H01L 51/0074 (2013.01); H01L 51/0085
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See application file for complete search history.(56) **References Cited**

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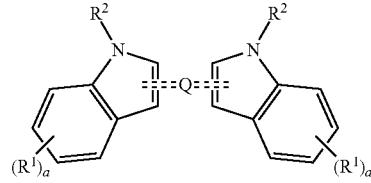
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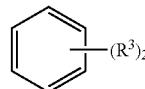
(57) **ABSTRACT**

This invention relates to a composition including (a) a dopant, (b) a first host having at least one unit of Formula I, and (c) a second host compound. Formula I has the structure

Formula I



where Q is a fused ring linkage having the formula



In Formula I: R¹ is the same or different at each occurrence and is D, alkyl, aryl, silyl, alkoxy, aryloxy, cyano, vinyl, or allyl; R² is the same or different at each occurrence and is H, D, alkyl, or aryl, or both R² are an N-heterocycle; R³ is the same or different at each occurrence and is H, D, cyano, alkyl or aryl; and a is the same or different at each occurrence and is an integer from 0-4.